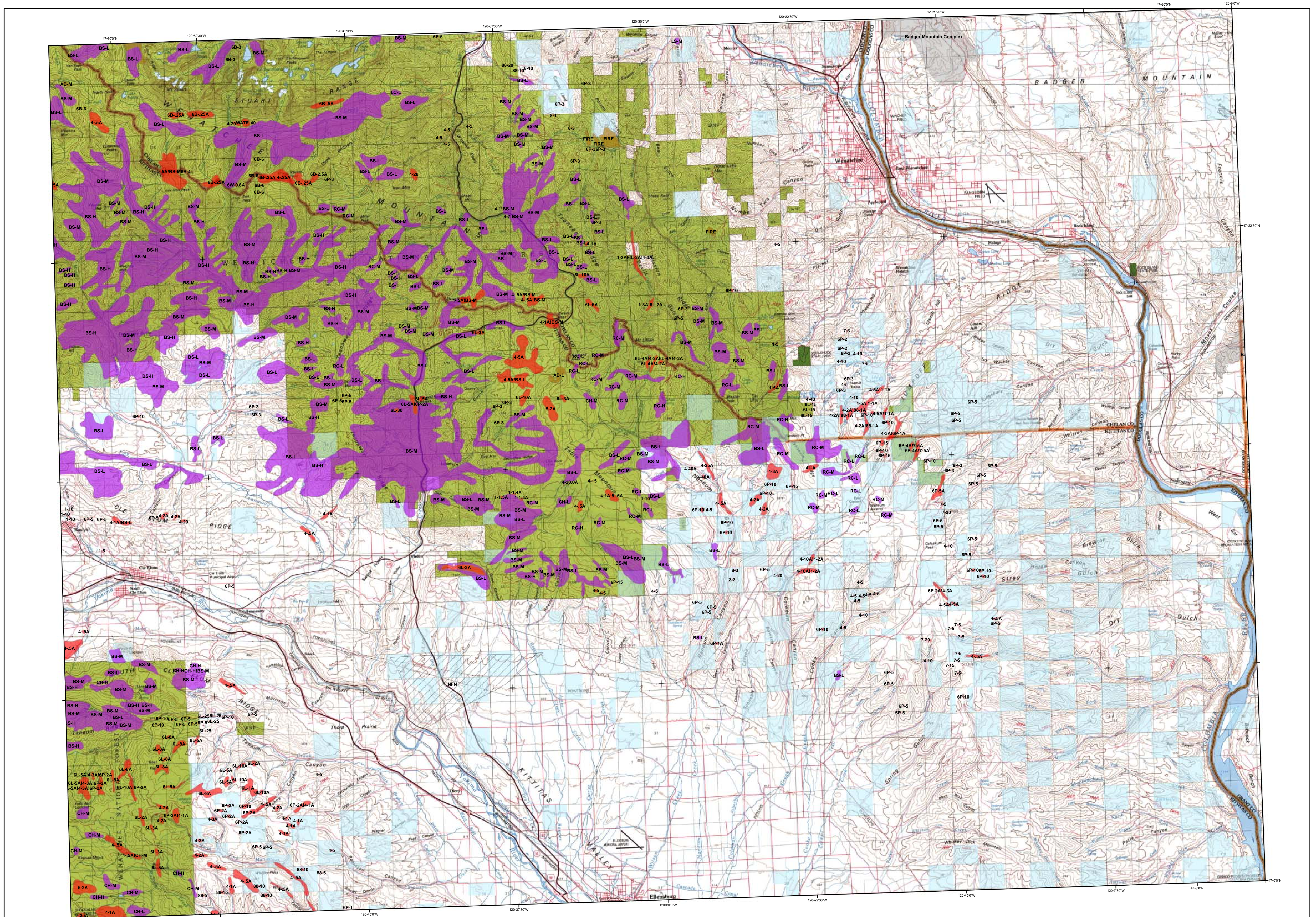


2008 Aerial Insect and Disease Survey

USGS 100K Quad: Wenatchee - A147120; 5D



Defoliators		
Code	Damaging Agent	Primary Host
AS	Spruce aphid	Sitka spruce
BB	Western blackheaded budworm	Hemlock, spruce, true fir
BM	Modio budworm	White fir
BP	Sugar pine tortrix	Lodgepole, ponderosa pines
BS	Western spruce budworm	True fir, Douglas-fir, spruce
BY	Bynum's bright/ophodometia	Ponderosa pine
CH	Larch	Western larch
HL	Western hemlock looper	Western hemlock looper
LO	Green striped forest looper	Douglas-fir, Western hemlock
LG	Larch looper	Western larch
LS	Black pine needle scale	Ponderosa pine
MD	Douglas-fir budmoth	Douglas-fir
ML	Larch budmoth	Western larch
MN	Douglas-fir needle midge	Spruce
MS	Spruce budmoth	Spruce
NJ	Needle miner	Jeffrey pine
NK	Needle miner	Kronenberg pine
NL	Needle miner	Lodgepole pine
NI	Needle miner	Conifer
NP	Needle miner	Ponderosa pine
NS	Needle miner	Sugar pine
NV	Needle miner	Western white pine
OL	Western oak looper	Oaks
PB	Pine butterfly	Ponderosa pine
PC	Pine needle cast	Ponderosa pine
PH	Phantom hemlock looper	Hemlock, Douglas-fir
PM	Pandora moth	Ponderosa, Jeffrey pines
PN	Pine needle sheath miner	Ponderosa, Jeffrey pines
PS	Pine needle scale	Lodgepole pine
RC	Needle cast	Conifer
S	Spruce mite	Conifer
SA	Sawfly	Conifer
SD	Sawfly	Douglas-fir
SH	Sawfly	True fir
SK	Sawfly	Hemlock
SL	Sawfly	Kronenberg pine
SM	Sawfly	Lodgepole pine
SNC	Swiss needle cast	Douglas-fir
SP	Sawfly	Ponderosa pine
TA	Tent caterpillar, aspen	Aspen
TC	Tent caterpillar, other	Hardwoods
TM	Douglas-fir tussock moth	True fir, Douglas-fir
TS	Tent caterpillar, aspen	Aspen

USGS 100K Quad: Wenatchee - A147120; 5D
2008 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 19, 2008

Legend

- Defoliating Agents
- Mortality Agents
- Other Damage
- Areas Not Flown
- WaDNR Managed Lands

Source: Washington Dept. of Natural Resources

The map base was created with TOPOI (Copyright 2001, National Geographic), available online at: www.ngmapstore.com

A data dictionary, digital copies of this map and ArcGIS insect and disease data are available at: www.fs.fed.us/r6/nr/fid/data.shtml

Vicinity Map

How the Aerial Surveys are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service and the Washington Department of Natural Resources. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

DIRECT ALL INQUIRIES TO:

Washington State Department of
Natural Resources
Resource Protection
Forest Health
1111 Washington St. SE
Olympia, WA 98504

-- OR --

USDA Forest Service, Region 6
Natural Resources
Forest Health Protection
PO Box 3623
Portland, Oregon 97208

****DISCLAIMER****

The insect and disease data presented should only be used as an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent.

Color coded polygons show locations where trees were recently killed or defoliated. Intensity of damage is variable and not all trees within coded polygons are dead or defoliated.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield inaccurate or misleading results.